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AB Platinum(II) and palladium(II) complexes MCl2L2 and the gold(I) complex [AuL2]Cl of the air-stable ferrocene-derived hydroxymethylphosphine FcCH2P(CH2OH)2 (L) have been synthesized by ligand substitution reactions, and the η6- p-cymene ruthenium(II) complex RuCl2(η6-C10H14)L has been synthesized by a chloride bridge-splitting reaction of the dimer [RuCl2(η6-C10H14)]2. The cationic gold complex has been the subject of a single-crystal x-ray

bridge-splitting reaction of the dimer [RuCl2(η 6-Cl0H14)]2. The cationic gold complex has been the subject of a single-crystal x-ray diffraction study, which shows the presence of the expected linearly coordinated bis(phosphine)gold cation, hydrogen-bonded to the chloride counterion and a lattice water mol.

ACCESSION NUMBER: 1999:20998 CAPLUS

DOCUMENT NUMBER: 130:153783

TITLE: Coordination complexes of the hydroxymethylphosphine

FcCH2P(CH2OH)2 [Fc = $(\eta 5-C5H5)$ Fe $(\eta 5-C5H4)$] and the x-ray crystal structure of the cationic gold bis(phosphine) complex [Au{FcCH2P(CH2OH)2}2]Cl

AUTHOR(S): Goodwin, Nicholas J.; Henderson, William

CORPORATE SOURCE: Department of Chemistry, University of Waikato,

Hamilton, N. Z.

SOURCE: Polyhedron (1998), 17(23-24), 4071-4077

CODEN: PLYHDE; ISSN: 0277-5387

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

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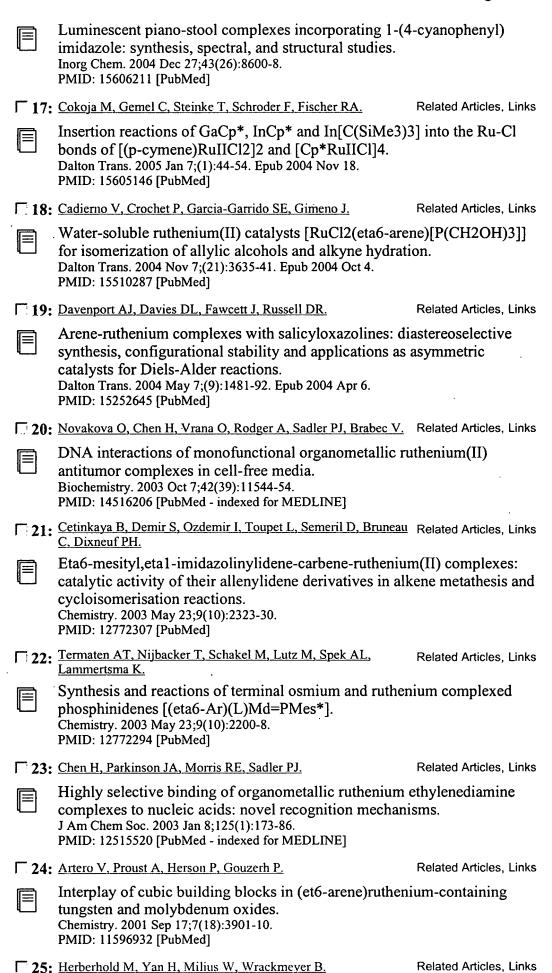
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